



Insolence

Suite: Symmetry Confusion
by Arya Akhavan (September 2012)

Angles for R.I. = 1.880

68 + 16 girdles = 84 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.000

P/W = 0.436 C/W = 0.123

Vol./W³ = 0.235

PAVILION

| | | | |
|----|--------|-------------------------|---------------------|
| P1 | 41.52° | 01-23-25-47-49-71-73-95 | Cut to centrepoint. |
| P2 | 39.98° | 03-21-27-45-51-69-75-93 | Meet at culet. |
| G1 | 90.00° | 01-23-25-47-49-71-73-95 | Set stone size. |
| G2 | 90.00° | 03-21-27-45-51-69-75-93 | Cut level girdle. |
| P3 | 40.33° | 02-22-26-46-50-70-74-94 | Meet P1, P2, G1, G2 |

CROWN

| | | | |
|----|--------|-------------------------------------|--------------------------------|
| C1 | 63.08° | 01-47-49-95 | Set girdle width. |
| C2 | 61.81° | 03-45-51-93 | Meet G1, G2, C1 (level girdle) |
| C3 | 38.08° | 21-27-69-75 | Meet G2, C2 (level girdle) |
| C4 | 39.61° | 23-25-71-73 | Meet G1, G2, C3 (level girdle) |
| C5 | 23.40° | 14-34-62-82 | Meet G2, C2, C3 |
| C6 | 12.31° | 04-12-20-28-36-44-52-60-68-76-84-92 | Meet C1, C2, C5; C3, C4, C5 |
| C7 | 10.11° | 16-32-64-80 | Meet C3, C4, C5, C6 |
| C8 | 10.19° | 96-48 | Meet C1, C6; C6, C7 |
| C9 | 1.00° | 96-16-32-48-64-80 | Meet C6, C7 |

"What's that, Mr. Client? You wanted a triangular checkerboard? Well then, you shouldn't have said 'a checkerboard with triangles'. Learn to be more specific." This is a really cool square cushion with triangular checkering. Designed for sphene, but works in material from feldspar to CZ (RI = 1.52 - 2.16) with no changes. Suggested size = 8-12 mm

C:\Program Files (x86)\GemCAD\Designs (Mine)\Insolence.gem